

#### ENVIRONMENTAL CONSULTANTS & ABATEMENT CONTRACTORS

March 14, 2023

PA HIC # 195

Schuylkill Valley School District 929 Lake Shore Drive Leesport, PA 19533

Attn: Casey Blankenbiller

Re: Spore Trap Air Sampling Services Elementary School, 62 Ashley Way, Leesport, PA EHC Project No.: 210141-009

Dear Mr. Blankenbiller:

Please review the attached laboratory analysis report in regard to the spore trap air sampling performed at the above-referenced properties on March 13, 2023. Air samples were collected from the following locations:

Sample 01 – Room #C-204, near windows; Sample 02 – Room #C-206, near windows; Sample 03 – Room #C-208, near windows; Sample 04 – Room #C-106, near windows; Sample 05 – Outside Baseline, behind docks.

At the current time, there are no established "safe" levels of mold spores in regard to indoor mold spore levels. However, the general consensus among experts in the industry is that interior spore levels should be generally equal to the levels found outside of a home or building.

As indicated on the enclosed report, at the time of sampling, <u>the spore counts are currently</u> <u>within acceptable ranges</u> (indoor compared to outdoor).

Please note that a limited, non-invasive visual inspection was performed. Although air sample results indicate low spore counts, this does not mean that a home or building is free of mold growth. When moisture is not present mold will become dormant and stop producing spores. EHC makes every attempt to detect mold growth using a combination of a thorough visual inspection, air sampling, and years of field experience.

2502 HORSESHOE ROAD, LANCASTER, PA 17601  $\diamond$  717-656-3008  $\diamond$  FAX: 717-656-7134 EMAIL: OFFICE@EHCASSOCIATES.COM  $\diamond$  WWW.EHCASSOCIATES.COM At the time of inspection, no visible mold growth was observed anywhere at any of the sample locations throughout the Elementary School where Spore Traps were collected. It should be noted that there were several live houseplants near the windows in Room #C-208, and two live plants near the windows in Room #C-106. I checked the soil in each live plant for moisture, and determined that all of the planters were fairly dry. House plants can sometimes skew interior Spore Trap samples if the plants are over-watered and provide the means for mold to proliferate. This did not seem to be a concern at the time of sampling.

In order to prevent microbial growth, we recommend that Relative Humidity (R.H.) be consistently maintained below 50% in all areas of the building. Additionally, all areas should be inspected frequently for pipe leaks or for signs of water intrusion and cleaned and dried promptly upon occurrence.

Please contact my office with questions or concerns, or if additional information is needed.

Sincerely,

Rick Dom Project Manager

Encl's.: Laboratory Analysis Report Invoice No. 210141-009

> 2502 HORSESHOE ROAD, LANCASTER, PA 17601  $\diamond$  717-656-3008  $\diamond$  FAX: 717-656-7134 EMAIL: OFFICE@EHCASSOCIATES.COM  $\diamond$  WWW.EHCASSOCIATES.COM



### #23010800

Analysis Report prepared for

# EHC Associates, Inc.

2502 Horseshoe Rd Lancaster, PA 17601

Phone: (717) 656-3008

**210141-009** Schuylkill Valley School District @ Elementary School 62 Ashley Way Leesport, PA 19533

Collected: March 13, 2023 Received: March 14, 2023 Reported: March 14, 2023 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 5 samples by FedEx in good condition for this project on March 14th, 2023.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Stephen N. Hoycs

Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

**Rick Dom** EHC Associates, Inc.

2502 Horseshoe Rd Lancaster, PA 17601 (717) 656-3008

# 210141-009

Schuylkill Valley School District @ Elementary School 62 Ashley Way Leesport, PA 19533

### #23010800

#### Spore Trap +

SOP - #HMC101

Sample Number*	1	1 35269233			2 35269214 Room #C-206			3526	9236	4 35269211 Room #C-106				
Sample Name*	Room #C-204			R				oom #C-20	8					
Sample Volume*		75 L			75 L			75 L		75 L				
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>				13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			
Background		2		2 ND				2 ND			2 ND			
Fragments		ND												
Particles	Dander	Pollen	Fiber	Dander	Pollen	Fiber	Dander	Pollen	Fiber	Dander	Pollen	Fiber		
Counts	2900 / m <sup>3</sup>		80 / m <sup>3</sup>	1700 / m <sup>3</sup>		80 / m <sup>3</sup>	1100 / m <sup>3</sup>		53 / m <sup>3</sup>	2700 / m <sup>3</sup>		80 / m		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Tot		
Alternaria														
Ascospores	6	80	60.0%	4	53	50.0%	2	27	50.0%	2	27	33.3		
Aspergillus Penicillium	3	40	30.0%	3	40	37.5%	2	27	50.0%	3	40	50.0		
Basidiospores	1	13	10.0%							1	13	16.7		
Bipolaris Drechslera														
Chaetomium														
Cladosporium				1	13	12.5%								
Curvularia														
Epicoccum														
Fusarium														
Memnoniella														
Myxomycetes														
Pithomyces														
Stachybotrys														
Stemphylium														
Torula														
Ulocladium														
Total	10	133	100%	8	106	100%	4	54	100%	6	80	100		
Water Damage Indicato ates data provided by the cust		Comm	on Allergen		Slightly Higher than Baseline			Significantly Higher than Baseline			Ratio Abnormality			
		Collected:Mar	13, 2023	Rece	eived: Mar 14, 2	023	Reported:	Mar 14, 2023						

Steve Hayes, BSMT Stephen N. Hours MICROBIAL CONSULTING 3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

### **Rick Dom EHC Associates, Inc.** 2502 Horseshoe Rd

Lancaster, PA 17601 (717) 656-3008

#### 210141-009

Schuylkill Valley School District @ Elementary School 62 Ashley Way Leesport, PA 19533

### #23010800

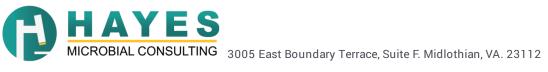
SOP - #HMC101

Sample Number*	5	3526	9231											
Sample Name*	Outside Baseline													
Sample Volume*	75 L													
Reporting Limit	13 spores/m <sup>3</sup>													
Background	2													
Fragments	ND													
Particles	Dander	Pollen	Fiber											
Counts	130 / m <sup>3</sup>	13 / m <sup>3</sup>	13 / m <sup>3</sup>											
Organism	Raw Count	Count / m <sup>3</sup>	% of Total											
Alternaria														
Ascospores	12	160	52.2%											
Aspergillus Penicillium	3	40	13.0%											
Basidiospores	5	67	21.7%											
Bipolaris Drechslera														
Chaetomium														
Cladosporium	3	40	13.0%											
Curvularia														
Epicoccum														
Fusarium														
Memnoniella														
Myxomycetes														
Pithomyces														
Stachybotrys														
Stemphylium														
Torula														
Ulocladium														
Total	23	307	100%											
Water Damage Indicato	r	Commo	on Allergen		Slight	tly Higher	than Baseline	S	Significantly Higher than Baseline			Ratio Abnormality		
* indicates data provided by the cust	omer	Collected:Mar	13, 2023		Received: I	Mar 14, 2	023	Repor	ted: <b>Mar 14, 202</b> 3	}				
<b>HAYES</b> MICROBIAL CONSULTING		Project Analyst Steve Hayes, B	SMT Stephen		. Haye	2	Date: 03 - 14 - 202	Rev	in the Device of	P. Ran	nesh	Date: 03 - 1	4 - 2023	
		3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112 (804) 562-3435 contact@hayesmicrobial.com Pag									Page: <b>3</b> of			

Rick Dom	210141-009	#23010800
EHC Associates, Inc.	Schuylkill Valley School District	
2502 Horseshoe Rd	@ Elementary School	
Lancaster, PA 17601 (717) 656-3008	62 Ashley Way Leesport, PA 19533	Spore Trap Information
(117) 050-5008	Leesport, FA 19555	
Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of th that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume be estimated.	
Blanks	Results have not been corrected for field or laboratory blanks.	
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells non-organic matter. As the background density increases, the likelihood of spores, especially small spor be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:	
	<ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field E 1 : &lt;5% of field occluded. No spores will be uncountable.</li> <li>2 : 5-25% of field occluded.</li> </ul>	Blanks will display NBD)
	<b>3</b> : 25-75% of field occluded.	
	4 : 75-90% of field occluded.	
	5:>90% of field occluded. Suggested recollection of sample.	
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when presence of mold amplification.	present in very large numbers, may indicate the
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor envi widely accepted in the indoor air quality field, the numbers and types of spores that are present in the ir present outdoors at any given time. There will always be some mold spores present in "normal" indoor e spores is to help determine whether an abnormal condition exists within the indoor environment and if it Spore counts should not be used as the sole determining factor of mold contamination. There are many of indoor and outdoor samples due to the dynamic nature of both of those environments.	ndoor environment should not exceed those that are environments. The purpose of sampling and counting t does, to help pinpoint the area of contamination.
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a	problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be fou	
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of Red: The spore count is significantly higher than the baseline count and probably indicates a source of o	
Significantly Higher than Baseline	<b>Violet</b> : The types of spores found indoors should be similar to the ones that were identified in the baseli	
Ratio Abnormality	the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the tota environment than it was outdoors.	
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded or indicators.	n the report, unless they are one of the water damage
Significant Figures	Raw counts and column totals may reflect more than 2 significant figures, but results should only be co	insidered significant to 2 figures



Rick Dom EHC Associates, Inc.		210141-009 Schuylkill Valley School District	#23010800
2502 Horseshoe Rd Lancaster, PA 17601 (717) 656-3008		@ Elementary School 62 Ashley Way Leesport, PA 19533	Organism Descriptions
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdo rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the repo	
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.	
Aspergillus Penicillium	Habitat:	The most common fungi isolated from the environment. Very common in soil and on decaying plar a wide variety of substrates.	nt material. Are able to grow well indoors on
	Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They ma opportunistic pathogens. Many species produce mycotoxins which may be associated with diseas production is dependent on the species, the food source, competition with other organisms, and of	e in humans and other animals. Toxin
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes a can cause structural damage to buildings.	and plant pathogens. In wet conditions they
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.	
Cladosporium	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surface lower in the winter and often relatively high in the summer, especially in high humidity. The outdoo and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and	or numbers often spike in the late afternoon
	Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersen	
Dander	Habitat:	Dander is dead skin cells. The average person sheds about 600,000 skin cells per day.	
	Effects:	Sources are people and animals.	
	11.1.1.1.1		
Pollen	Habitat:	Reproductive structures of trees, grasses and plants.	
	Effects:	Trees, grasses and plants.	

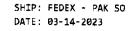




Company: EHC Associates

Address: 2502 Horseshoe Road

Lancaster, PA 17601



# 8176 1280 6258



Job	D Number: 210141-009 Job Name: Schuylkill Valley School District													23010806	כ	
Colle		ick Dom		@ Elementary School, 62 Ashley Way						Mobile: (717) 656-3008 Email: labresults@ehcassociates.co						
·	Collected: 03/13/2023 Leesport, PA 19533									Note: Reasample of specific rooms @ Elementary School						
Analysis Type																
Spore	e Trap	s	Identificati	Analysis Description ication & Enumeration of Fungal Spores								Air Cooo	Accepted Media Types Air Cassettes, Impact Slides			
		S+			s with Dander, Fiber, and Pollen counts								Air Cassettes, Impact Slides			
Direct ID D ID & Semi-Quantative Enumeration of spores and									-		Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate				
Direc		D+		alysis with Fully Quantitative spore count								Bio-Tape, Tape, Swab, Bulk, Agar Plate				
Cultu	rο	C1									Day					
		C2		cation & Enumeration of Mold only cation & Enumeration of Bacteria only									Air Plate, Agar Plate, Swab, Bulk			
		C3		ation & Enumeration of Mold and Bacteria								Air Plate, Agar Plate, Swab, Bulk Air Plate, Agar Plate, Swab, Bulk				
	4	C5			en for Sewage Bacteria								Agar Plate, Swab, Bulk			
		ТРА		rticulate Analysis, ID & Count (Does Not Include Mold)								Air Cassettes, Impact Slides, Bio-Tape				
#	Num	ber		Sample Analysi				1	Volume		Notes					
1,1	3526	6 9233 Room #C-204							S+ 75 li <sup>-</sup>		75 liters	near windows			ws	
2 3526 9214				Room #C-206					S+ 75 liters		near windows					
3 3526 9236				Room #C-208					S+	5+ 75 liter		near windows		ws		
4 3526 9211			Room #C-106				S+	+ 75 liters		near windows			ws			
5	5 3526 9231			Outside Baseline			S+	75 liters		behind docks		ks				
6																
7																
8	· · · · · · · · · · · · · · · · · · ·															
9						·····										
10						•••••••••••••••••••••••••••••••••••••••										
11																
12																
13				<sup></sup>												
14																
15					}											
16	<b>.</b>	/_/	<u> </u>		<u> </u>											
Relea	ased by:		//7		Dat	e: 03/13/2	023	Received	By:		YH			Date	3/14	
Hayes M	licrobial Consultir	ng, LLC.	3005 East Bou	ndary Terrac	e, Suite F. N	/idlothian, VA. 2	23112	(804) 562-3	435 co	ontact	@hayesmicrobia	l.com		Form	#20, Rev.3, March 23 Chain of Cu	